PTO/SB/08A (08-03)
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known				
Application Number	09/927129			
Filing Date	8/10/2001			
First Named Inventor	Stephen Melvin			
Group Art Unit	2662			
Examiner Name	Hissou Kissan			
Attorney Docket Number	MIPS.0177-00-US			

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code <sup>2(if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
MB		20040148382	07-29-2004	Narad et al.	
MA		20050061401	03-24-2005	Tokoro et al.	
MB		20040172471	09-02-2004	Kelvin R. Porter	
MB3		20020124262	09-05-2002	Basso et al.	
MB		6249801	06-19-2001	Zisapel et al.	
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MD		6047122	04-04-2000	Cynthia J. Spiller	
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,	FOREIGN PATENT DOCUMENTS					
Examiner Cite	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages	Ţ
Initials*	No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (* known)		Applicant of Cited Document	or Relevant Figures Appear	Ľ.
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kind Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

Con	mplete if Known	
Application Number	09/927129	
Filing Date	8/10/2001	
First Named Inventor	STEPHEN MELVIN	
Group Art Unit	2662	
Examiner Name	HISSOU KISSAN	
Attorney Docket Number	MIPS.0177-00-US	

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Examiner	Examiner Cite Document Number		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures
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Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	<b>⊤</b> 8
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INFORMATION DISCLOSURE	Filing Date
STATEMENT BY APPLICANT	First Named Invent

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Application Number	NA	
Filing Date	08/10/2001	_
First Named Inventor	Enrique Musoll et al.	_
Group Art Unit	NA i	_
Examiner Name	NA	į
Attorney Docket Number	P3828	L

			U.S. PATENT DOC	UMENTS		. co 🚬
Cite No.1	U.S. Patent Number	Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	165C
	09/737,3	75	Mario Nemirovsky et al.	NA	Priority Claim	
	60/181,36	i4	Mario Nemirovsky et al.	NA	Priority Claim	
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		Cite No.1 Number 09/737,3	No.1 Number Kind Code	Cite No.1 Number Kind Code (if known)  O9/737,375 Name of Patentee or Applicant of Cited Document  Name of Patentee or Applicant of Cited Document	Number Kind Code (if known)  Number (if known)  Name of Patentes or Applicant of Cited Document MM-DD-YYYY  Number (if known)  Name of Patentes or Applicant of Cited Document MM-DD-YYYY  Name of Patentes or Applicant of Cited Document MM-DD-YYYY	U.S. Patent Document Number Kind Code <sup>2</sup> (if known)  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Number (if known)  Name of Patentee or Applicant of Cited Document MM-DD-YYYY  Name of Patentee or Applicant Cited Document MM-DD-YYYY  Passages or Relevant Figures Appear  Priority Claim

				FORE	IGN PATENT DOCUMENT	ГS		
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Initials	Cite No.1	Office <sup>3</sup>	Number	Kind Code <sup>5</sup> (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T <sup>6</sup>
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Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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				Application Number	NA		
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	Ó	Z	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>	
		ENRIQUE MUSOLL ET AL.  Mechanism to Activate a Context When No Stream is Running in a Multi-Streaming Processing Core April 16, 2001, Disclosure Document #492431, USPTO			
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Signature	Considered	

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE	Filing Date	08/10/2001		
	First Named Inventor	Enrique Musoll		
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2662 Hassan Kizou Examiner Name P3828 Attorney Docket Number

Examinor	Cite	Document Number	Publication Date	Name of Palentee or	Pages, Columns, Lines, Where
initiale*	Nto.1	Number-Kind Code <sup>2 (Flooring</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevan Figures Appear
MY		<sup>US-</sup> 6088745 A *	07-11-2000	Bertagna et al.	
NB)		<sup>US-</sup> 6157955 A *	12-05-2000	Narad et al.	
NB.		US- 6169745 B1 *	01-02-2001	Liu et al.	
1109		US- 6226680 B1 *	05-01-2001	Boucher et al.	
MB		<sup>US-</sup> 5918050 A *	06-29-1999	Rosenthal et al.	
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NB		US- 5812810 A *	09-22-1998	Sager, David	
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Examiner Initiala*	Cite No.1	Foreign Patent Document	Publication Oate	Name of Patentae or Applicant of Cited Document	Pages, Columna, Lines, Where Relevant Passages	
		Country Code <sup>®</sup> "Number <sup>4</sup> "Kind Code <sup>®</sup> (If known)	MM-DP-YYYY		Or Relevant Figures Appear	T°.
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<sup>\*</sup> References not provided under §1.98

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	ler the Peperwork Re e for tarm 1449/PTQ		t of 1995, no persons as	re required to respond to a collection	of information unless it contains a valid OMB Complete if Known	control number.
Supsimin				Application Number	09/927,129	<u>.</u>
INFO		CLOSURE	Filing Date	08/10/2001		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Enrique Musoll	
(Uso 43 many sheets as necassary)				Art Unit	2662	
	(Geo de Hany en		ceasory)	Examiner Name	Hassan Kizou	
Sheet	3	of	3	Attorney Docket Number	P3828	

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of				
Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
MB		* KNUTH, DONALD E., "The Art of Computer Programming, Third Edition, Volume 1, Fundamental Algorithms", "Sec. 2.5 Dynamic Storage Allocation", 1997, pp 435-458, Addison-Wesley, US				
NB		* DIEFENDORFF, Keith, K7 Challenges Intel, Microprocessor Report, October 26, 1998, Vol. 12, No. 14, US				
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<sup>\*</sup> References not provided under §1.98

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**Attorney Docket Number** 

Complete if Known 1449A/PTO Substitute for for **Application Number** 09/927129 CRADEMNFORMATION DISCLOSURE Filing Date 8/10/2001 STEPHEN MELVIN First Named Inventor STATEMENT BY APPLICANT **Group Art Unit** 2662 (use as many sheets as necessary Examiner Name HISSOU KISSAN

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Sheet

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	0.1 Number-Kind Code <sup>2(if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
MB		4200927	04-29-1980	Huges et al.	
MB.		5708814	1-13-1998	Short et al.	
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STATEMENT BY APPLICANT
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Sheet 2 of 4

Con	mplete if Known	
Application Number	09/927129	
Filing Date	8/10/2001	
First Named Inventor	STEPHEN MELVIN	
Group Art Unit	2662	
Examiner Name	HISSOU KISSAN	
Attorney Docket Number	MIPS.0177-00-US	

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No. <sup>1</sup>	Number-Kind Code <sup>2(if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
MB		20040172504	09-02-2004	Balazich et al.	
MB		20040015598	01-22-2004	Jin-Fun, Lin	
NB		09/608,750	NA	Nemirovsky et al.	
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		FOREIG	N PATENT DO	CUMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	
	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (#known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Ľ
MB	AA	WO 03/005645A2	06-25-2002	Sampath et al.		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
MB	ВА	MELVIN ET AL., "Extended Instruction Set for a Packet Processing Applications," July 5, 2001, Disclosure Document #496559, USPTO	
MB	ВВ	MUSOLL ET AL., "Hardware Algorithm for Allocating and De-Allocating Consecutive Blocks of Memory," April 3, 2001, Disclosure Document #491557, USPTO	
MB	вс	MUSOLL ET AL., "Mechanism to Overflow Packets to a Software Controlled Memory When They Do Not Fit into a Hardware Controlled Memeory,", July 3, 2001, Disclosure Document #496391, USPTO	
NB	BD	MUSOLL ET AL., "Mechanism for Allowing a Limited Packet Head and/or Tail Growth Without Moving the Packet to a Different Memeory Location," April 16, 2001, Disclosure Document #492429, USPTO	

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of

Coi	mplete if Known
Application Number	09/927129
Filing Date	8/10/2001
First Named Inventor	STEPHEN MELVIN
Group Art Unit	2662
Examiner Name	HISSOU KISSAN
Attorney Docket Number	MIPS.0177-00-US

		NON PATENT LITERATURE DOCUMENTS	
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MP	BE	MUSOLL, ENRIC, "Functional Validation of a Packet Management Unit," May 18, 2001, Disclosure Document #429011, USPTO	
MB	BF	SAMPATH ET AL., "Mechanism to Un-speculatively Pre-fetch Instructions from the Thread Associated to a Packet," April 2, 2001, Disclosure Document #491527, USPTO	
MB	BG	YAMAMOTO, WAYNE. An Analysis of Multistreamed, Superscalar Processor Architectures. University of California Santa Barbara Dissertation. December 1995. Santa Barbara, US.	
MB	вн	YAMAMOTO ET AL. "Increasing Superscalar Performance Through Multistreaming." Parallel Architectures and Compilation Techniques (PACT '95). 1995	
MP	Ві	The PowerPC Architecture: A Specification for a New Family of RISC Processors. 2 <sup>nd</sup> Ed. May 1994. pp. 70-72. Morgan Kaufmann. San Francisco, US.	
MB	ВЈ	MC68020 32-Bit Microprocessor User's Manual. 3 <sup>rd</sup> Ed 1989. pp. 3-125, 3-126, and 3-127. Prentice Hall, NJ, US.	
MB	BK	POTEL, M. J. "Real-Time Playback in Animation Systems." Proceedings of the 4 <sup>th</sup> Annual Conference on Computer Graphics and Interactive Techniques. 1977. pp. 72-77. San Jose, CA, US.	
MB	BL	ARM Architecture Reference Manual. 1996. pp. 3-41, 3-42, 3-43, 3-67, and 3-68. Prentice Hall, NJ, US.	
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MD	BN	MC88110 Second Generation RISC Microprocessor User's Manual. 1991. pp. 10-66, 10-67, and 10-71.  Motorola, Inc.	
MB	ВО	DIEFENDORFF ET AL. "Organization of the Motorola 88110 Superscalar RISC Microprocessor." IEEE Journal of Microelectronics. April 1992. pp. 40-63. Vol. 12, No. 2. IEEE. New York, NY, US.	

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**Application Number** 

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09/927129

8/10/2001

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2662 **Group Art Unit Examiner Name HISSOU KISSAN** 4 of 4 **Attorney Docket Number** MIPS.0177-00-US

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MB	BP	KANE, GERRY. PA-RISC 2.0 Architecture. 1996, pp. 7-106 and 7-107. Prentice Hall. NJ, US.					
MB	BQ	DIEFENDORFF ET AL. "AltiVec Extension to PowerPC Accelerates Media Processing." IEEE Journal of Microelectronics. Vol. 20, No. 2 (2000): pp. 85-95					
µВ	BR	GRUNEWALD ET AL. "Towards Extremely Fast Context Switching in a Block Multithreaded Processor."  Proceedings of EUROMICRO 22, 1996. pp. 592-599					
MB	BS	BRADFORD ET AL. "Efficient Synchronization for Multithreaded Processors." Workshop on Multithreaded Execution, Architecture, and Compilation. Jan-Feb 1998. pp. 1-4					
MB	вт	PAI ET AL. "An Evaluation of Memory Consistency Models for Shared-Memory Systems with ILP Processors." Proceedings of ASPLOS-VII, Oct. 1996: pp. 12-23, ACM, Inc.					
MB	BU	YOAZ ET AL. "Speculation Techniques for Improving Load Related Instruction Scheduling." 1999. Pages 42-53, IEEE.					
M	BV	KESSLER, R. E. "The Alpha 21264 Microprocessor: Out-of-Order Execution at 600 MHz." August 1998.					
МВ	BW	DONALSON ET AL. "DISC: Dynamic Instruction Stream Computer, An Evaluation of Performance." 26th Hawaii Conference on Systems Sciences. Vol. 1. 1993. Pages 448-456.					
MB	вх	NEMIROVSKY ET AL. "DISC: Dynamic Instruction Stream Computer." ACM. 1991. Pages 163-171					
MB	BY	MUSOLL ET AL. Mechanism to Prevent the Download of a Packet with Pending Writes Affecting Its Data. April 11, 2001. Disclosure Document #492430, USTPO					
MB	BZ	UNGERER ET AL. A Survey of Processors with Explicit Multithreading. ACM Computing Surveys, Vol., 35, No. 1. March 2003. Pages 29-63.					

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